

CLAIMS

1. A method comprising the step of stimulating the parasympathetic nervous system via the right and left vagal nerves, wherein said method significantly increases the initiation of non sustained atrial fibrillation.

Sub A. 2. A method of On - Off voltage stimulation of the right and left vagal nerves comprising the step of significantly correlating said method with the On - Off set of the atrial fibrillation episode.

3. A method comprising the step of deactivating the right and left vagal nerves, wherein said method significantly decreases the occurrence of atrial fibrillation.

4. A method comprising the step of stimulating the sympathetic nervous system via the right and left stellar ganglions, wherein said method significantly increases the initiation of non sustained atrial fibrillation.

5. A method comprising the step of stimulating the right and left vagal nerves in the presence of the right and left stellar ganglions, wherein stimulation is not significantly different compared to the method of stimulating the parasympathetic nervous system alone on the occurrence of atrial fibrillation.

6. 2 A method comprising the step of locally infusing the parasympathetic neurotransmitter, wherein said method significantly increases the conversion of sustained atrial flutter to non sustained atrial fibrillation.

7. 3 A method comprising the step of local infusing the parasympathetic neurotransmitter during a sustained atrial flutter, wherein said method significantly reverses the antiarrhythmic effects of a class 3 antiarrhythmic drug, sotalol.

Sub  
A1  
8. The method, according to anyone of claims 1, 2 and 3, wherein locally  
infusing the parasympathetic nervous system blocker significantly prevents the  
occurrence of atrial fibrillation.

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9. The method, according to anyone of claims 1, 2 and 6, wherein  
activating the parasympathetic tone significantly converts a sustained atrial flutter to  
sinus rhythm.

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10. The method, according to anyone of claims 1, 2, 3 and 6, wherein  
inhibiting the parasympathetic tone significantly converts a sustained atrial fibrillation  
to sinus rhythm.

Sub  
A2  
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11. The method, according to anyone of claims 6 and 7, wherein infusing  
the parasympathetic nervous system blocker significantly preserves the antiarrhythmic  
effects of class 3 antiarrhythmic drugs on the occurrence of a sustained atrial re-  
entrant arrhythmias.

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12. The method, according to anyone of claims 6 and 7, wherein infusing  
the parasympathetic nervous system blocker significantly preserves the antiarrhythmic  
effects of class I, II, IV, V or any other drugs used for the treatment of the atrial re-  
entrant arrhythmias.

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13. The method, according to anyone of claims 1, 2, 3 and 6, wherein  
catheter ablation of the atrial areas with the greatest density of parasympathetic fibers  
innervation significantly converts and prevents the occurrence of the atrial re-entrant  
arrhythmias.